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5. **On evaluation of clustering using homo**
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King-Ip Lin; Kondadadi, R.;
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Volume 2, 15-18 May 2000 Page(s):154:
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Jianchang Mao; Jain, A.K.;
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Volume 7, Issue 1, Jan. 1996 Page(s):16
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Yee Leung; Jiang-She Zhang; Zong-Ben
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☐ **18. Highly available and efficient load clus**
SNMP and Web

Myung-Sup Kim; Mi-Jeong Choi; Hong,
Network Operations and Management Sy
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15-19 April 2002 Page(s):619 - 632
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☐   **25. CLUSTER-a package for cluster analy**
Popchev, I.; Peneva, V.;
Engineering in Medicine and Biology So(
Annual International Conference of the II
4-7 Nov 1988 Page(s):1466 - 1467 vol.3
Digital Object Identifier 10.1109/IEMBS.
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1 Focusing processor policies via critical-path prediction
◈ Brian Fields, Shai Rubin, Rastislav Bodík
   May 2001 **ACM SIGARCH Computer Architecture News , Proceeding**
      annual international symposium on Computer architecture
      29 Issue 2
   Publisher: ACM Press
   Full text available: 🖹 pdf(1.10   Additional Information: full citation, abst
                        MB)   citings, index ter

   Although some instructions hurt performance more than others, current ɟ
   apply scheduling and speculation as if each instruction was equally costl
   can be naturally expressed through the *critical path*: if we could predict i
   egalitarian policies could be replaced with cost-sensitive strategies that v
   increasingly effective as processors become more parallel.

   This paper introduces a hardware predictor of instruction critic ...

2 Genetic algorithms with cluster analysis for production simulation
◈ Robert Entriken, Siegfried Vössner
   December 1997 **Proceedings of the 29th conference on Winter simulati(**
   Publisher: ACM Press

Full text available: 🅰 pdf(847.38 Additional Information: <u>full citation</u>, <u>refe</u>
KB)

3 <u>Register allocation across procedure and module boundaries</u>

Vatsa Santhanam, Daryl Odnert

June 1990 **ACM SIGPLAN Notices , Proceedings of the ACM SIGPLA
on Programming language design and implementation PLD]**
Issue 6

Publisher: ACM Press

Full text available: 🅰 pdf(1.51   Additional Information: <u>full citation</u>, <u>abst</u>
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This paper describes a method for compiling programs using interproced
allocation. A strategy for handling programs built from multiple module:
well as algorithms for global variable promotion and register spill code r
algorithms attempt to address some of the shortcomings of previous inte1
allocation strategies. Results are given for an implementation on a single
based architec ...

4 <u>Broadcast protocols to support efficient retrieval from databases by mobile</u>

Anindya Datta, Debra E. VanderMeer, Aslihan Celik, Vijay Kumar

March 1999 **ACM Transactions on Database Systems (TODS)**, Volume

Publisher: ACM Press

Full text available: 🅰 pdf(638.48 Additional Information: <u>full citation</u>, <u>abst</u>
KB)   <u>citings</u>, <u>index ten</u>

Mobile computing has the potential for managing information globally.]
issues in mobile computing have received some attention in recent times
adaptive braodcast protocols has been posed as an important probllem. S
employed by database servers to decide on the content of bbroadcasts dy
response to client mobility and demand patterns. In this paper we design
also propose efficient retrieval s ...

Keywords: adaptive broadcast protocols, client-server computing, energ
mobile databases

5 Scheduling and page migration for multiprocessor compute servers

Rohit Chandra, Scott Devine, Ben Verghese, Anoop Gupta, Mendel Rosen

November 1994 **ACM SIGPLAN Notices , ACM SIGOPS Operating S**ɔ
Proceedings of the sixth international conference on Aɪ
support for programming languages and operating sys
Volume 29 , 28 Issue 11 , 5

Publisher: ACM Press

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MB)   citings, index terɪ

Several cache-coherent shared-memory multiprocessors have been devel
scalable and offer a very tight coupling between the processing resourceɪ
quite attractive for use as compute servers for multiprogramming and paɪ
workloads. Process scheduling and memory management, however, remɪ
to the distributed main memory found on such machines. This paper exaɪ
OS scheduling and page migration policies on the perfo ...

6 Memory forwarding: enabling aggressive layout optimizations by guarante
data relocation

Chi-Keung Luk, Todd C. Mowry

May 1999 **ACM SIGARCH Computer Architecture News , Proceeding**
annual international symposium on Computer architecture ɪ
27 Issue 2

Publisher: IEEE Computer Society, ACM Press

Full text available: pdf(196.77
KB)   Additional Information: full citation, abst
Publisher   citings, index terɪ
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By optimizing data layout at run-time, we can potentially enhance the pe
by actively creating spatial locality, facilitating prefetching, and avoidinɟ
and false sharing. Unfortunately, it is extremely difficult to guarantee thɛ
optimizations are *safe* in practice on today's machines, since accurately ɪ
to an object requires perfect alias information, which is well beyond the
compiler for languages such as C. T ...

7 Distributional clustering of English words

Fernando Pereira, Naftali Tishby, Lillian Lee

June 1993 **Proceedings of the 31st annual meeting on Association for C**

Linguistics
Publisher: Association for Computational Linguistics
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We describe and evaluate experimentally a method for clustering words
distribution in particular syntactic contexts. Words are represented by th
distributions of contexts in which they appear, and relative entropy betw
distributions is used as the similarity measure for clustering. Clusters are
average context distributions derived from the given words according to
of cluster membership. In many cases, the cluster ...

8 A performance evaluation of cluster architectures
◈ Xiaohan Qin, Jean-Loup Baer
    June 1997 **ACM SIGMETRICS Performance Evaluation Review , Pro**
            1997 ACM SIGMETRICS international conference on Mea
            modeling of computer systems SIGMETRICS '97, Volume 2
Publisher: ACM Press
Full text available: 🖼 pdf(1.65   Additional Information: full citation, abst
                    MB)   citings, index ten

This paper investigates the performance of shared-memory cluster-based
each cluster is a shared-bus multiprocessor augmented with a protocol p
cache coherence across clusters. For a given number of processors, sixte
evaluate the performance of various cluster configurations. We also cons
adding a remote shared cache in each cluster. We use Mean Value Analy
cache miss latencies of various types and th ...

9 Slack: maximizing performance under technological constraints
◈ Brian Fields, Rastislav Bodík, Mark D. Hill
    May 2002 **ACM SIGARCH Computer Architecture News , Proceeding**
            annual international symposium on Computer architecture
            Proceedings of the 29th annual international symposium on
            architecture ISCA '02, Volume 30 Issue 2
Publisher: IEEE Computer Society, ACM Press
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<u>citings</u>, <u>index ten</u>

Many emerging processor microarchitectures seek to manage technologi
wire delay, power, and circuit complexity) by resorting to *non-uniform* d
resources at multiple quality levels (e.g., fast/slow, bypass paths, multi-s
units, and grid architectures). In such designs, the constraint problem bec
problem, and the challenge becomes designing a *control policy* that mitig
performance penalty of the non-uniformit ...

Keywords: critical path, slack, performance analysis, program behavior,
technological constraints, wire delay, power, circuit complexity, clusters

10 <u>Analysis of benchmark characteristics and benchmark performance predict</u>
◈ Rafael H. Saavedra, Alan J. Smith
November 1996 **ACM Transactions on Computer Systems (TOCS),** Vc
Publisher: ACM Press

Full text available: 📄 <u>pdf(1.02</u>
<u>MB)</u>

Additional Information: <u>full citation</u>, <u>abst</u>
<u>citings</u>, <u>index ten</u>

Standard benchmarking provides to run-times for given programs on giv
fails to provide insight as to why those results were obtained (either in te
program characteristics) and fails to provide run-times for that program c
machine, or some other programs on that machine. We have developed a
imdependent model of program execution to characterize both machine p
program execution. By merging these machine and program characteriz

Keywords: abstract machine performance model, benchmark analysis, e
prediction, microbenchmarking

11 <u>Input Devices: Movement model, hits distribution and learning in virtual ke</u>
◈ Shumin Zhai, Alison Sue, Johnny Accot
April 2002 **Proceedings of the SIGCHI conference on Human factors ir
systems: Changing our world, changing ourselves**
Publisher: ACM Press

Full text available: ⊞ pdf(930.16 Additional Information: full citation, abst
           KB)   citings, index ter

In a ten-session experiment, six participants practiced typing with an exp
method on an optimized virtual keyboard. Based on a large amount of in
data, this paper reports the following findings. First, the Fitts-digraph mc
model of virtual keyboards is revised. The format and parameters of Fitt:
previously in virtual keyboards research were incorrect. Second, perforn
predictions of various layouts are calculated with the new m ...

Keywords: Fitts' law, expanding rehearsal, graphical keyboard, learning
computing, on screen keyboard, skill acquisition, soft keyboard, text enti
keyboard

12 Trading quality for compile time: ultra-fast placement for FPGAs
   Yaska Sankar, Jonathan Rose
   February 1999 **Proceedings of the 1999 ACM/SIGDA seventh internatic
                  Field programmable gate arrays**
   Publisher: ACM Press
   Full text available: ⊞ pdf(1.21   Additional Information: full citation, refe:
              MB)   index terms

13 Efficient placement algorithms optimizing delay for high-speed ECL maste
   Yasushi Ogawa, Tatsuki Ishii, Yoichi Shiraishi, Hidekazu Terai, Tokinori]
   Yuyama, Kyoji Chiba
   July 1986 **Proceedings of the 23rd ACM/IEEE conference on Design ar**
   Publisher: IEEE Press
   Full text available: ⊞ pdf(610.76 Additional Information: full citation, abst
              KB)   citings, index ter

   Placement algorithms optimizing signal delay as well as wirability for hi
   masterslice LSI's are proposed. Equivalent constraints of wire length for
   path delay, and wired-OR are classified according to upper and lower lin
   such limits, a top-down method utilizing an augmented two-dimensional
   placement with "scope" and "zone", which are new concepts representin
   iterative weighted improvement method ...

14 <u>Research sessions: query processing II: Efficient k-NN search on vertically</u>

◆ Arjen P. de Vries, Nikos Mamoulis, Niels Nes, Martin Kersten

June 2002 **Proceedings of the 2002 ACM SIGMOD international confei Management of data SIGMOD '02**

Publisher: ACM Press

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Applications like multimedia retrieval require efficient support for simil: data collections. Yet, nearest neighbor search is a difficult problem in hi; spaces, rendering efficient applications hard to realize: index structures c increasing dimensionality, while sequential search is not an attractive sol repositories with millions of objects. This paper approaches the problem angle. A solution is sought in an unconvent ...

15 <u>High-cost CFD on a low-cost cluster</u>

Thomas Hauser, Timothy I. Mattox, Raymond P. LeBeau, Henry G. Dietz,

November 2000 **Proceedings of the 2000 ACM/IEEE conference on Su[(CDROM)**

Publisher: IEEE Computer Society

Full text available: 🖺 <u>pdf(4.00 MB)</u> 🖫 <u>Publisher Site</u>   Additional Information: <u>full citation, abst index terms</u>

Direct numerical simulation of the Navier-Stokes equations (DNS) is an for the future of computational fluid dynamics (CFD) in engineering app DNS requires massive computing resources. This paper presents a new a implementing high-cost DNS CFD using low-cost cluster hardware. Aft(DNS CFD code DNSTool, the paper focuses on the techniques and tools developed to customize the performance of a cluster ...

16 <u>On balancing the load in a clustered web farm</u>

◆ Joel L. Wolf, Philip S. Yu

November 2001 **ACM Transactions on Internet Technology (TOIT), V**

Publisher: ACM Press

Full text available: 🖺 <u>pdf(612.40</u> Additional Information: <u>full citation, abst</u>

In this article we propose a novel, yet practical, scheme which attempts t the load on the servers of a clustered Web farm. The goal in solving this problem is to achieve minimal average response time for customer reque ultimately achieve maximal customer throughput. The article decouples into two related but distinct mathematical subproblems, one static and or believe this natural decoupling is one of the major contrib ...

Keywords: Clustered Web farms, combinatorial optimization, load balai allocation problems

17 System-level power optimization: techniques and tools

Luca Benini, Giovanni de Micheli

April 2000 **ACM Transactions on Design Automation of Electronic Sys**
            Volume 5 Issue 2

Publisher: ACM Press

Full text available: pdf(385.22 Additional Information: full citation, abst
            KB)   citings, index ten

This tutorial surveys design methods for energy-efficient system-level d< electronic sytems consisting of a hardware platform and software layers. three major constituents of hardware that consume energy, namely comp communication, and storage units, and we review methods of reducing tl consumption. We also study models for analyzing the energy cost of sofi for energy-efficient software design and compilation. This survery ...

18 Reducing memory latency via non-blocking and prefetching caches

Tien-Fu Chen, Jean-Loup Baer

September 1992 **ACM SIGPLAN Notices , Proceedings of the fifth intei**
                conference on Architectural support for programming
                operating systems ASPLOS-V, Volume 27 Issue 9

Publisher: ACM Press

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19 <u>Concepts and effectiveness of the cover-coefficient-based clustering metho</u>
<u>databases</u>
Fazli Can, Esen A. Ozkarahan
December 1990 **ACM Transactions on Database Systems (TODS)**, Vol
Publisher: ACM Press
Full text available: pdf(2.74   Additional Information: <u>full citation</u>, <u>abst</u>
                     MB)   <u>citings</u>, <u>index ter</u>

A new algorithm for document clustering is introduced. The base concep
the cover coefficient (CC) concept, provides a means of estimating the n
within a document database and related indexing and clustering analytic;
concept is used also to identify the cluster seeds and to form clusters witl
shown that the complexity of the clustering process is very low. The retr
show that the information-retrieval effectiv ...

Keywords: cluster validity, clustering-indexing relationships, cover coel
coefficient, document retrieval, retrieval effectiveness

20 <u>Comparing the effectiveness of fine-grain memory caching against page m</u>
<u>in reducing traffic in DSM clusters</u>
An-Chow Lai, Babak Falsafi
July 2000 **Proceedings of the twelfth annual ACM symposium on Paral**
           architectures
Publisher: ACM Press
Full text available: pdf(105.85 Additional Information: <u>full citation</u>, <u>abst</u>
                     KB)   <u>index terms</u>

In this paper, we compare and contrast two techniques to improve capaci
traffic in CC-NUMA DSM clusters. Page migration/replication optimize
accesses to a page used by a single processor by migrating the page to th
replicates all read-shared pages in the sharers' local memories. R-NUMA
write accesses to any page by allowing a processor to cache that page in
Page migration/replication requires less hardware c ...

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Comparing the decompositions produced l software clusteringalgorithms using simila measurements

Mitchell, B.S. Mancoridis, S.
Dept. of Math. & Comput. Sci., Drexel Univ.
Philadelphia, PA;

Abstract
Decomposing source code components and r into subsystem clusters is an active area of re Numerous clustering approaches have been p in the reverse engineering literature, each on different algorithm to identify subsystems. Si different clustering techniques may not prodt identical results when applied to the same sy; mechanisms that can measure the extent of th differences are needed. Some work to measu: similarity between decompositions has been this work considers the assignment of source components to clusters as the only criterion f similarity. We argue that better similarity measurements can be designed if the relation the components are considered. The authors two similarity measurements that overcome (problems in existing measurements. We also some suggestions on how to identify and dea source code components that tend to contribu similarity results. We conclude by presenting experimental results, and by highlighting son benefits of our similarity measurements

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... Suppose that we wanted to **compress** the f-image from N ... n by n cell as shown in the
following **code**. ... useful if there are 168. EXPLORING SELF-SIMILARITY IN MILLIONS ...
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Early Fixation of an Optimal Genetic Code - group of 7 »
SJ Freeland, RD Knight, LF Landweber, LD Hurst - Molecular Biology and Evolution, 2000 - mbe.oupjournals.org
... to **minimize** the effects of errors (eg, mistranslation and mutation) on resulting
proteins. If amino acid **similarity** is measured as polarity, the canonical **code** ...
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The Darwinian Genetic Code: An Adaptation for Adapting? - group of 7 »
SJ Freeland - Genetic Programming and Evolvable Machines, 2002 - Springer

... for an adaptive **code** is that the assignments of amino acids (encoded objects) to
codons (coding units) appear to be organized so as to **minimize** the change in ...
Cited by 13 - Web Search - BL Direct

The Genetic **Code** Is One in a Million - group of 6 »
SJ Freeland - Journal of Molecular Evolution, 1998 - Springer

... it bears little **similarity** to the natural genetic **code** other than in its calculated
tMS value (natural **code** ... shaped the genetic **code** to **minimize** the effects ...
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TOP: a new method for protein structure comparisons and **similarity** searches - group of 2 »
G Lu - Journal of Applied Crystallography, 2000 - bioinfo1.mbfys.lu.se
... six vari- ables are re®ned to **minimize** the rms ... Once topological
similarity is found,
the program will browse ... structures according to PDB entry **codes** or ®le ...
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Joint design of fixed-rate source codes and multiresolution channel codes - group of 4 »
AJ Goldsmith, M Effros - Communications, IEEE Transactions on, 1998 - ieeexplore.ieee.org
... channel followed by an RCPC channel **code** matched to the VQ to
minimize distortion. ...
To understand the **similarity** in performance of our joint **code** designs, we ...
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synthetase,
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An intelligent tool for re-enginee

Schwanke, R.W.
Siemens Corp. Res. Inc., Princeton

Abstract
The author describes a software too
modularization advice for improvir
design similarity measure is define
information hiding principle. The n
services: clustering, which identifie
procedures, and maverick analysis,
procedures that appear to be in the
already provided useful advice in s
projects. The tool will soon incorpc
method, which allows the tool to le
adapting its advice to the architect's
experiment demonstrates that the a
function can assign procedures to n

Index Terms
Inspec
Controlled Indexing
software maintenance   softwa
tools

Non-controlled Indexing
Parna information hiding princ
tuning   clustering   code impr
design similarity measure   hei
advice   intelligent tool   mave
learning   re-engineering   soft
software tool

Author Keywords
Not Available

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